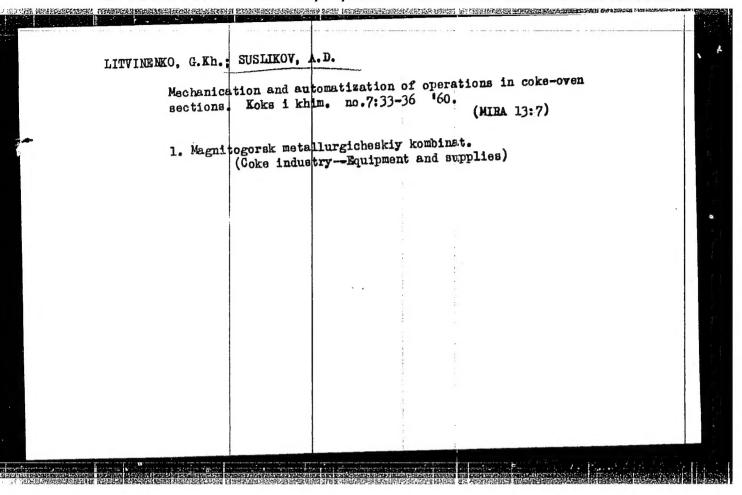
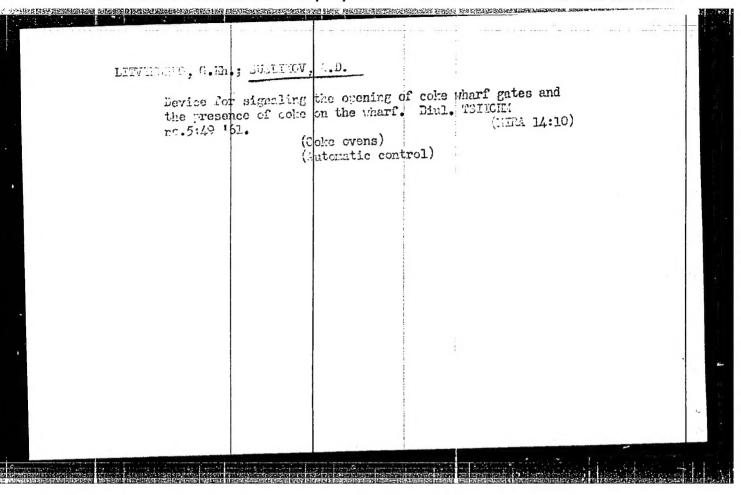
eim berginskerk berginser	AMERICAN STATE OF THE STATE OF	REPORT CONSTRUCTORY STREET, FEE TO ASSESS	A STATE OF THE PROPERTY OF THE	
suslik,	Vojtech, inz.	‡ †		
	Damage caused to the in the years 1959-196	forests by the spread of so D. Les cas 9 no.8:749-760	mall rodents Ag '63.	
	1. Vyskumny ustav les	neho hospodarstva, Banska	Stiavnica.	
		5		
		,		
		0		
11				
			i.	
				0

KADEYKIN, V.A., dots.; SOKOLOV, V.D., dots.; DRUZHININ, A.S., kand. ist. nauk; SUSLIKOV, A.A., st. prep.	
[Reports and papers of the Scientific Conference on the Subject "Expanding socialist competition in the coal industry of the Kuznetsk Basin"] Doklady i soobshcheniia Nauchnoi konferentsii na temu "Razvitie sotsialisticheskogo sorevnovaniia v ugol'noi promyshlennosti Kuzbassa." Kemerovo, Kemerovskii gornyi in-1, 1962. 113 p. (MIRA 17:7)	
l. Nauchnaya konferentsiya na temu "Razvitiye sotsialistiche- skogo sorevnovaniya v ugol'noy promyshlennosti Kuzbassa.	





LITVINENKO, G.Kh.;	SUSLIKOV A.D.	: GARAN', F.A.	William Charles and Constitution of the Consti	
Automation 27-31 '63	of coke sortin	g and distribution.	Koks i khim. no.6: (MIRA 16:9)	
1. Magnitos	gorskiy metallı	rgicheskiy kombinat (Coke industry)	(Automation)	
				S. S
				A STATE OF THE PARTY OF THE PAR
				G 4
				he la se

	I THE TRANSPORT OF THE PROPERTY OF THE PROPERT	
,		
1. SUSLIKOV, F., Eng		
2. USSR (600)	·	
4. Milking Machines		
	cylinder pump of a milking machine, MTS 13 No. 5, 1953.	
1,0		
1		
		4
9		
	Annil 2052 finel	
9. Monthly List of Russ	ian Accessions, Library of Congress, April 1953, Uncl.	
		1 de 1 24

JOSET INC.	/, G.F.				X X- X
	gg alian Ores gyenites in the Irhetakays 100 Maphelline Syenites Books of the Unbaratoys 100 Maphelline-Syenite Books of the Unbaratoys 5, and A.M. Kamler. Bend-industrial Testing	Department, 17, and R.T. INDOOR. Reveally the Hillianits Upon of the Defaction type provide the Product of Products Alaskam and Its Alloys 72 Tentrollersh Method of Products Alaskam and Its Alloys 72 Tentrollersh and Economic Principalities for the Utilization of Expendicy Number of in the Production of Alaskam and Its Alloys Sased on the Samery To be Supplied by the Flammed State Exploration of Ministry to be Supplied by the Flammed State Exploration of the Tentery To be Supplied by the Flammed State Exploration State Section 66	Sub on A.R., 2.7s. Electromor, and V.V. hereagilium. Synthitalitys Superitor. Synthitalitys Selicio. Secring Sillismite Schirts  Deprima, N. B. Beslits of Geophysical Prospecting by the VEZ (Vertical Electromotical Secritor). Herbod at the Kynthitalitys Sillismite Schirt by Departic A.V., and Ye. E. Electromot. Physicochemical Properties, Composition, and Resening Possibilities of the Sillismite Dress of the Composition Deportic.  Li, A.J., and Ye. E. Fredishbyn. Mineralogical Composition of the Sillismite Second States of the Cynthitalitys Deposits	Mandamiya assak DBCE. Vostochas-Sibirakiy filial  Mandamiya assak DBCE. Vostochas-Sibirakiy filial  Mandamiya assak DBCE. Vostochas-Sibirakiy filial  Mandamiya kesarny lagith metallor Vostochasy Sibira, kas. 2[Light hetal Resources  set Restarn Siberia, Yth 2] Hoscow, 1950, 250 p. (Saries; Its: Truty, 77p. 13)  1,200 espine princis.  Mathematal Rectases; Ed. Alabswyre, Yt. 7. Resolitays, V.S. Resher, A.J. (L. Dator  set Sealagiani esk Mineral Sciences, and Yt. 1. Datesor (Newp. Ed.) Candidate of  Tending.  Tending.	

SOV/137-59-3-5202 Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 38 (USSR) Gerasimov, A. G.. Suslikov, G. F., Tatsiyenko, P. A. AUTHORS: On the Utilization of Iron Ores of the Nizhne-Angarskiy Ore Body (K voprosu ob ispol zovanii zheleznykh rud Nizhne-Angarskogo TITLE: mestorozhdeniya) PERIODICAL: Tekn. ekon. byul. Sovnarkhoz Krasnoyarskogo ekon. adm. r-na, 1958, Nr 2, pp 12-15 The final results of concentration of ore by the gravitation-flotation and magnetic-roasting methods under laboratory conditions are ABSTRACT: adduced. The calculations performed serve to substantiate the proposed immediate exploitation of the Nizhne-Angarskiy iron-ore body. Card 1/1

T-1948 F-3-92-1	TERM DEPREMIES	大学的对称共享的证据,但我们们还是对在对表达的证明,其间的是,但是是对于这种的现在分词,但是是不是是一个人,可以是是是一种人,可以是是一个人,也可以是一个人,可
-		
		SOV-127-58-9-10/20
	AUTHORS:	Gerasimov, A.G., Suslikov, G.F., Tatsiyenko, P.A. and Medvedkov, V.I.
	TITLE:	New Data on the Concentration of Iron Ores of the Nizhnyaya Angara Deposits Novyye dannyye po obogashcheniyu zheleznykh rud Nizhne-Angarskogo mestorozhdeniya)
	PERIODICAL:	Gornyy zhurnal, 1958, Nr 9, pp 56-62 (USSR)
	ABSTRACT:	Data on the concentration processes of the Nizhnyaya Angara iron ore deposits have been collected and studied during the iron ore deposits have been collected and studied during the iron ore deposits have been collected and studied during the iron ore deposits have been collected and studied during the iron leading to the iron metallurgical institute and as a
	•	Institutes and the Siberian methods of concentration have been proposed: result two rational methods of concentration have been proposed: gravity-flotation and magnetic-roasting methods. Comparative gravity-flotation and magnetic-roasting methods. Comparative gravity-flotation in table 1. After technical and economical results are shown
	Card 1/3	method. Although these findings sele conducted in the Krasnoyarsk Plant Sibelektrostal by tests conducted in the Krasnoyarsk Plant Sibelektrostal by W.D. Kosul'nikov, V.S. Tomilin, A.M. Komlev, A.D. Komleva,
and the second		

SOV-127-58-9-10/20 New Data on the Concentration of Iron Ores of the Nizhnyaya Angara Deposits M.G. Kurochkin, N.S. Kosul'nikova, A.S. Kozhevnikov, S.M. Luk'yanov, V.B. Lutsiyan, V.V. Makarov, D.Ye. Necheporenko, and G.L. Suslikdva in 1957-58, they also found the possibility of obtaining much better results of the concentration by the magnetic - roasting method. According to their findings, the optimum degree of reduction of rossted ore is in the 120-150 % range, as compared with 83-102 % findings of the Mekhanobr (Fig. 1). Research on various reducers showed that the best results of reducing were obtained when coal was used as fuel. Its use allowed the necessary degree of reduction to be obtained at a temperature of 650-700°, which must have been much higher when gas was used as a fuel. As the Krasnoyarsk region has huge reserves of brown coal, it was decided to use only the magnetic-roasting method. Brown coal consumption amounted to 8.1 % of the processed ore on the average. The low cost of brown coal makes this method highly profitable. The crushed ore of class minus 12 mm was subjected to the magnetic-roasting process; after that it was divided into two classes of plus 2 mm and minus 2 mm. The ore of class plus 2 mm was then subjected to the dry magnetic separation and the obtained concentration, together with ore of class minus 2 mm, Card 2/3

SOV-127-58-9-10/20 New Data on the Concentration of Iron Ores of the Nizhnyaya Angara Deposits was again subjected to wet magnetic separation. Further concentration operations were continued, according to two schemes elaborated by the Mekhanobr Institute (Fig. 2) and the Sibelektrostal Plant (Fig. 3). Best results were obtained with ores reduced by 120-150 % (Table 3). After testing the obtained concentrates with various iron ores of the Nizhnyaya Angara deposits, the Sibelektrostal Plant proposed a general method of concentration for all ores of the region. The cost of cast iron obtained from the concentrates (Table 7) of ores of the Nighnyaya Angara deposits is, after the Magnitogorsk cast iron, the lowest in the Union. There is 1 graph, 7 tables and 5 schemes. Krasnoyarskiy zavod Sibelektrostal (The Krasnoyarsk Sibelektro-ASSOCIATION: stal Plant); Krasnoyarskoye geologicheskoye upravleniye (The Krasnoyarsk Geological Administration) 1. Iron ores--Processing Card 3/3

O CONTRACTOR OF THE PROPERTY O		P STORESTING WARRESTONE STATE OF THE STATE O
	F.; REVENKO, Z.F.; KOMLEV, A.H.	
Pilo Sib.	t-plant testing of Uzhur nephelines fil. AN SSSR no.13:125-133 '58.	to be dressed. Trudy Vost (MIRA 12:12)
J)	asnoyarskiy metallurgicheskiy zavod Zhur region (Kuznetsk Ala-Tau)Neph Dre dressing)	Sibelektrostal.
T 7		
		130000000000000000000000000000000000000

		_	, s.M.; SUSLI			
	Industrores.	ial testing Trudy Uralme	of Kachkanar khanobra no.	deposit titani :58-73 '59.	um-magnetite (MIRA 15:1)	
	obrabot	ki noleznykh	iskopayemyki k (for Buchel	i (for Tymrenko	ut mekhanicheskoy v). 2. Ural'ski Zavod "Sibelektro	y
	g our	(10) 5052330	(Kachkanar M	lountainIron	ores)	
		·		· :		
		·				

。 [2] [2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	
SUSLIKOV, G.F.; KUROCHKIN, M.J.; YUR'YEVA, N.A.	
Experimental treatment of the Satka deposit magnesites in heavy suspensions. Ognaupory 31 no.1:26-30 '66. (MIRA 19:1)	
l, Krasnoverskiy metallurgicheskiy zavod "Sibelektrostal"."	18 18 18 18 18 18 18 18 18 18 18 18 18 1
	\$ 1

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654010012-1

SUSL	IKOY. I., arkh	ltektor; MI	MINONKOV, B., inzh.
	Reinfor	ced cement	t roofs. Stroitsl' no.11:26-27 N '59. (MIHA 13:3)
		(Roofs,	Concrete)
		.—	
			·

VASILENKO, O.V.; REYZ, M.	MIRONKOV, B.A.; SUSLIKOV, I.P.; MOROZOV, A.P., red., red.; ROZOV, L.K., tekhn. red.	•
tonkoste	n-walled elements: meshreinforced concrete] Novye nnye konstruktsii: armotsement. Pod red. A.P.Moro d, Gosstroiidat, 1961. 127 p. (MIRA 15:	zova. 5)
l. Akade filial.	miya stroitel'stva i arkhitektury SSSR. Leningrads 2. Deystvitel'nyy chlen Akademii stroitel'stva i tury SSSR (for Morozova). (Precast concrete construction)	kíy

A CONTRACTOR OF THE PROPERTY O	YELISEYEV, Yu.A. arkhitek		IRONKOV, B	.A., inzh.;	SUSLIKOV, I.P.		
	Mesh-rei zhelbe	nforced cond tau no.9:392	rete eleme 2-394 S ' (Precast c	nts in build oncrete cons	ing practice. (1 truction)	Bet. i MIRA 14:10)	
		*					
		,				• •	
							Control
	por later to a popular se						

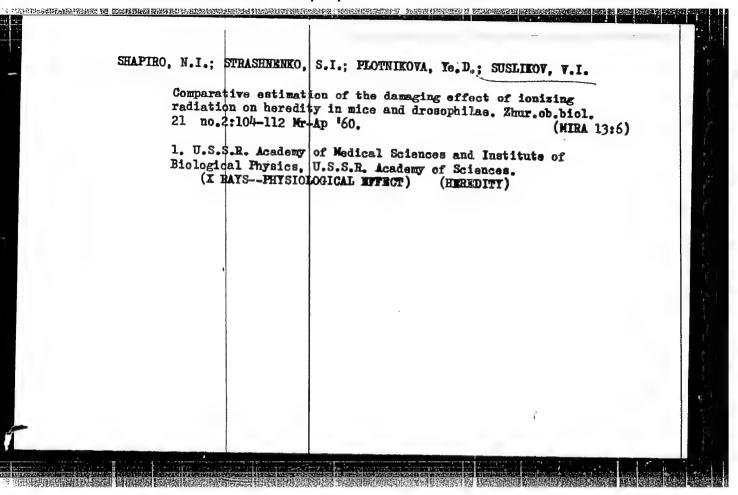
CONTRACTOR OF THE PROPERTY OF	CONTROL SERVICE SERVIC
SUSLIKOV, P. I.	
Viticulture	
On the "Su-Psekh" State Farm. Vin. SSSR 12 No. 8, 1952.	
Northbur Tink of Day	
Monthly List of Russian Accessions, Library of Cong December, 1952. UNCLASSIFIED.	ress,

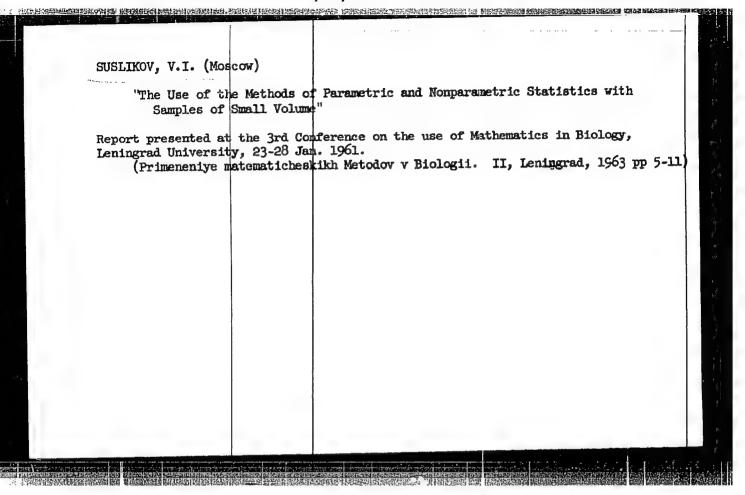
SUSLI	COV, V.				
	Financial p 38-41 Ap 5	lanning in	n industrial establishments. Fin	n. SSSR 18 r (MLRA 1	10.4:
	12-4-0-5-1 1 <del>5</del>			60v a 1: 14	

Impro Den.i	kred. 17 no.1	g of specialist :54-65 Ja '59. Finance-Study	s for State Bank in . ( and teaching)	nstitutions. MIRA 12:4)	
			,		
·					

SAMADELASHVILI,		
Issuding 70 Mr '6	credit for new machinery. Den. i kred. 19 no.3	RA 14:3)
	(Credit) (Georgia—Textile machinery) (Saratov Province—Machinery in industry)	l luye
		Comments to
	·	F)

Radiobiolo	gical analy Escherichis	lysis of the relationship between the inacti- coli and the dose of X irradiation. Biofizika	
	t biologich	(MIRA 14:6) cheskoy fiziki AN SSSR, Moskva. CHIA COLI) (X RAYS—PHYSIOLOGICAL EFFECT)	1
		·	
	:		





SHA	Relative Radiobio	genetic rad Logiia 1 no. niya meditsi	e.D.; STRASHNENKO, iosensitivity in d 1:93-103 '61. nskikh nauk SSSR i	ifferent mammal Institut biolog	species. (MIRA 14:7)	
		(X 1	A15PHISTULOUTUAL	EFFECT		
		and a part of the		:		
				المراجعة المستحدية المراجع الم	Company of the compan	

;		42684
		S/747/62/000/000/005/025 D268/D307
271220		
AUTHORS:	Shapiro, N. I., and Suslikov, V.	Plotnikova, Ye. D., Strashnenko, S. I.
	and see	de different species .
TITLE:	Comparative gene	tic radiosensitivity in different species
SOURCE:	Radiatsionnaya & AN SSSR. Moscow,	enetika; sbornik rabot. Otd. biol. nauk Izd-vo AN SSSR, 1962, 63-78
nant leth in 2 1/2 268, 402 those in and 750 of their were sla the fema In all 3	o provide data on hals taken as the 4 month-old main and 670 r, those 5 - 8 month-old r. The mice and rown age, being k ughtered on the 1 ts were s species the numb	the rate of induced mutations, with dominadicators of genetic changes, the gonads is mice were irradiated with x rays at 134, in rats at the same dose and 804 r, and chinchilla rabbits at 150, 300, 450, 600 at were subsequently mated with females ept together for 3 days, and the females 1 - 16th day of pregnancy. After mating, aughtered on the 20th day of pregnancy. ers of yellow bodies, implantation sites
Card 1/2		and produced to represent the second
		The state of the s

Comparative genetic radiosensitivity... D268/D307

and embryos were assessed to establish the number of embryos killed and the stage at which this from crosses in the j days killing of the embryos was the spermatozoids of the irradiated animals. The data on the rate of development of dominant cies studied showed genetic radiosensitivity to be highest in rabbits and lowest in mice. It was established that in most cases the dominant lethals induced in rabbits killed the embryos before implantation of the testis, thereas in most cases in mice and rats they were killed subsequently. There are 4 figures and 5 tables.

ASSOCIATION: Akademiya meditsinskikh nauk SSSR (Academy of Medical Sciences USSR) and Institut biologicheskoy fiziki AN SSSR, Moskwa USSR, Moscow)

Card 2/2

1,2685

S/747/62/000/000/006/025 D268/D307

271.00

AUTHORS: Shapiro, N. I., Strashnenko, S. I., Plotnikova, Ye. D.

是一个人,我们就是这个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是我们的人,我们也是这个人,我们就是我们的人,我们就是我们的人,我 我们是一个人,我们就是我们是我们的人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是我们的人,我们就是我们的人,我们就是我们们就是我们的人,我们就会是

and Suslikov, V. I

TITLE: A comparative assessment of the injurious effect of ioniz-

ing radiation on heredity in mouse and Drosophila

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk

AN SSSR. Moscow, Ikd-vo AN SSSR, 1962, 79-90

TEXT: The rate of the formation of dominant lethals was used as an indicator of the effect of radiation. Gonads in 2 1/2 - 4 monthold male mice were irradiated with x rays at 134, 268, 402 and 670 r, followed by mating with 2 females for 3 days. On the 14-16th day of pregnancy these were opened and the number of yellow bodies, implantation sites and emoryos assessed. Embryos killed both before and after implantation were determined, due to dominant lethals in the spermatozoids or the irradiated males. Similar data for maximum and minimum radiosensitivity in different lines of Drosophila melanogaster were used from previous studies by N. I. Shapiro et

Card 1/2

S/747/62/000/000/006/025

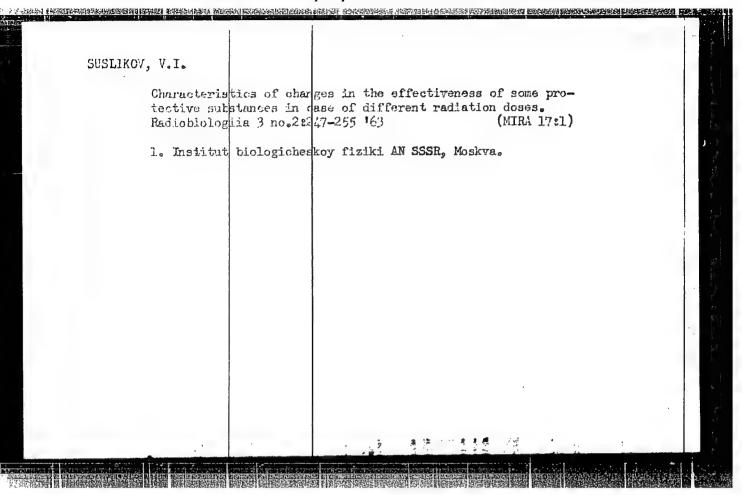
A comparative assessment ...

al. (Doid. AM USSA, 1947, 5c, no. 8, 1785-1736). Comparison of the rates of the formation of adminant lethals in mice and D. melanomaster by 5 methods which are described showed that: 1) mice were an average of 5 - 7 times; 2) an average of 6 - 8 times; and 3) an average of 6 - 9 more radiosensitive than D. melanogaster. The rate of the formation of dominant lethals in both subjects was proportional to the total chromisome measurements, that in mice being 9 times higher. There are 2 figures and 5 tables.

ASSOCIATION: Amademiya meditsinskikh nauk SSSR (Academy of Medical Sciences USSR) and Institut biologicheskoy fiziki AM SSSR, moskva (Institute of Biological Physics AS USSR, Roskow)

5/020/62/146/004/015/015 B144/B186 27.24/1 Sondak, V. A., Gradheva, Ye. P., Gladyshev, B. N., AUTHORS: Suslikov, V. I. Protective effect of phytolipopolysaccharides and BG -2 (VB-2) under the action of radiation TITLE: Akademiya nauk SSSR. Doklady, v. 146, no. 4, 1962, 925-928 PERIODICAL: TEXT: The effect of a nonfibrinolytic phytolipopolysaccharide (PLP) from tea leaves was studied on white rats irradiated with a total dose of 700 r (Co<sup>60</sup>). The PLF was administered either alone or combined with the polyvinyloutyl ester preparation VB-2 (m.w.6000; n<sub>D</sub> 1.4600) subcutaneously by 4 injections of 100-50 7, 96, 72, 48, and 24 hrs before irradiation. VB-2 was administered for the first time 24 hrs after . irradiation and then orally every day during the entire observation period of 30 days. The effect of the two preparations was examined by determining hemoglobin and by enythrocyte, leukocyte, differential blood count, reticulocyte and thrombodyte counts. The results were statistically evaluated and compared with the values obtained from controls which Card 1/2

\$/020/62/146/004/015/015 Protective effect of had only been irradiated. For the PLP animals the death rate of the controls of  $62.0 \pm 6.86$  decreased to  $26.0 \pm 9.15$ , and for the PLP + VB-2 animals to 23.0 + 11.63. Detailed blood examinations showed that, at all stages, the hemoglobin content and the erythrocyte, reticulocyte, and thrombocyte counts were higher than those of the controls With combined treatment the protective effect was higher than with administration of FLP only. The white blood count was not influenced essentially. Unlike the bacterial lipopolysaccharides, PLP therefore is suitable as a radiation blocker. There are 2 figures and 3 tables. ASSOCIATION: Institut biologicheskoy fiziki Akademii nauk SSSR (Institute of Biological Physics of the Academy of Sciences USSR) Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the scademy of Sciences USSR) April 13, 1962, by A. I. Oparin, Academician PRESENTED: April 12, 1962 SUBMITTED: Card 2/2



pb-4 L 20271-65 AMD ACCUSSION NR: \$/0299/6h/000/01h/NO2h/MO2h ARLIOL5858 SOURCE: Ref. zh. Biologiya. Syddnywy tom, Abs. 14M157 AUTHOR: Lapchinskiy, A. G.; Medvedeva, G. V.; Gadalina, I. D.; Suslikov, V. I.; Eyngorn, A. G. Skin and mammary gland homoplasty with parabiosis of donor an : oc! pient in rats Sb. 3 Vses. konferentsiya po peresadke tkaney i CITED SCURCE: organov, 1963. Yerevan, 1963, 365-367 TOPIC TAGS: skin, mammary gland, homoplasty, parabiosis, rat, hyperplasia, transplantation T A.SLATION: Parabiosis in young rats leads to the development of the corance between partners according to data of Lapchinskiy and Bay adt. In some of the experiments nonrelated rats taken from different vivariums were joined in parabiosis by forming a skin or skin-muscle bridge between the partners. A flap from the back of one of the rate served as a transplant on the partner's atomach, and a Card 1/2

表现现代的形式 化异苯丙基异丙基异丙基酚酚医克西西斯氏氏征 化光流动物 医视节部 经保证的 经未经证据 化二苯基甲基乙基

L 20271-65 ACCESSION NR: ARLOL5868 flap from the latter's stomach served as a transplant on the back of the other rat. The difficulty of forming parabiosis in adult rats (because they constantly try to separate themselves from one another) and the seriousness of the operation led to a high percentage of postoperative deaths. Many rats died on the lith to 15th days. Hyperplasia of the spleen and lymph nodes was found in the dead animals. However, the reason for sloughing off of transplant and death of animal could not always be found: perhaps it could be incompatibility of tissues or infection. Only 7 pairs of rats lived more than 20 days in parabiosis. In some of these a gradual crowding out of the transplant by the recipient's own tissues was found. Maximum life expectancy of rats in parabiosis is 6 mos. In one case wher one partner died, the homotransplant on the back of the other partner remained intact. This transplant contained a mammary gland which 7 mos after transplantation secreted a small quantity of milk. ENCL: SUB JODE: LS 00 Card 2/2

L 12931-63 EVT(1)/EVT(m)/BDS ASD/AFFIC ACCESSION NR: AP300B937 \$/0205/63/003/004/0587/0594 Sondak, V. A.; Gracheva, Ye. P.; Glady\*shev, B. N.; Suslikov, V. I. AUTHOR: TITLE: Effect of phytolipopolysaccharides and preparation VB-2 on the hemogenesis of irradiated animals SOURCE: Radiobiologiya, v. 3, no. 4, 1963, 507-594 TOPIC TAGS: radiation sickness, antiradiation preparation, polysaccharide. phytolipopolysaccharide, VB-2, hemogenesis, vinylbutyl ether polymer ABSTRACT: Lipopolysaccharides from the leaves of Vitis vinifera and Thea sinensis have been tested on white male rats for their antiradiation qualities. The phytolipopolysaccharides used did not have the ability to stimulate fibrinolysis. To protect the intestinal mucosa from radiation damage, a VB-2 preparation (polymer of vinylbutyl ether) was applied. An M-2 computer was employed to tabulate statistical results. It was concluded that 1) phytolipopolysaccharides applied before irradiation possess definite prophylactic properties and when used in conjunction with a VB-2 preparation exert some protective function after irradiation; 2) a positive influence from these preparations was also manifested in the Card 1/2

	•	100				
•						
	L 12931-63					
	ACCESSION NR: AP3	003937		:		
	_		1			
	blood - dynamic cl	hanges of e	rythrocytes.	reticulocytes.	and thrombocytes	after
	irradiation were mo	ore favorab.	le in the ani	lmals treated wi	th phytolipopoly	saccha-
	rides and VB-2; 3)	phytolipope	olysaccharides	s. unlike bacter	ial lipopolysacc	hard des
1	exert a protective	influence (	on hemogenesi	is against penet	rating radiation	stimu-
•	lating erythro-thro	ombocytopoie	esis without	any persistent	and pronounced of	hange in
	cells of the leucoc	cytic order	. Orig. art.	has: 2 tables	and I figure.	
:	ACCOURAGEOUS TOTAL	the season		La AM GOOD /x	atituta an Dist	
	ADDUCTATION: HIST.	. 606 - 010 107	IODERKOV TIZI	THE RESERVE THE		referred to the
	ASSOCIATION: Insti	Institut or	iqueskoy iizi	RI AN SSSK (In	gertage of Bloto	gical
	Physics, AN SSSR); ]	Institut org	zanicheskoy k	chimii im. N. D.	Zelinskogo AN S	gical SSR,
:	Physics, AN SSSR); I Moscow (Institute of	Institut org	zanicheskoy k	chimii im. N. D.	Zeliaskogo AN S	gical SSR,
	Moscow (Institute of	Institut org of Organic (	Zenicheskoy k Chemistry, AN	chimii im. N. D. V SSSR)	Zeliuskogo AN S	SSR,
	Physics, AN SSSR); ]	Institut org of Organic (	Zenicheskoy k Chemistry, AN	chimii im. N. D.	Zelinskogo AN S	SSR,
- <u>·</u> :	Moscow (Institute of	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
	Moscow (Institute of SUBMITTED: 11Jan63	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. V SSSR)	Zeliuskogo AN S	SSR,
	Moscow (Institute of SUBMITTED: 11Jan63	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
	Moscow (Institute of SUBMITTED: 11Jan63	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
	Moscow (Institute of SUBMITTED: 11Jan63	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
	Moscow (Institute of SUBMITTED: 11Jan63	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
	Moscow (Institute of SUBMITTED: 11Jan63	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
Co	Mosecw (Institute of SUBMITTED: 11Jan63 SUB CODE: AM	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
· Co	Moscow (Institute of SUBMITTED: 11Jan63	Institut org of Organic (	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
Co	Mosecw (Institute of SUBMITTED: 11Jan63 SUB CODE: AM	Institut org	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,
Co	Mosecw (Institute of SUBMITTED: 11Jan63 SUB CODE: AM	Institut org	zenicheskoy k Themistry, AN DATE A	chimii im. N. D. SSSR)	Zelinskogo AN S	SSR,

•	Merikov, v.1.					
	4.	action of diethy	lstilbestrol,	Radicbiologiia 3 (MERA 17:7)	ı	
	1. Institut	biologicheakby	fiziki AN SSSF	, Moskva.		

SUSLIKOV, V.I.	
Discovery of a mechanism of radiation effect on living objects by studying the dynamics of reparation processes. Radiobiologiia 5 no.1:49-56 '65. (MIRA 18:3)	
1. Institut biologicheskoy fiziki AN SSSE, Moskva.	

ACC NA: AT0030008 SOURCE CODE: UR/0000/66/000/000/0356/0357	31	
AUTHOR: Suslikov, V. I.		
TITLE: Decreased effectiveness of shemical protection against smaller makes	Tion 1	
doses Paper presented at the Conference on Problems of Space Medicine held in Noscow from 24-27 May 1966	n	
SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii	•	•
TOPIC TAGS: radiation protection, cosmic radiation biologic effect, pharmaco space medicine	logy,	
ABSTRACT: The ineffectiveness of radioprotective substances during either chronic		0.20
or fractionated irradiation of animals with doses of marginal lethality is still unexplained. This phenomenon could be connected with the decreased		
effectiveness of protection which accompanies decrease in the degree of injury from a single irradiation. The ineffectiveness of antiradiation agents		
with low lethal radiation doses has been experimentally confirmed for two		
Card 1/3	•	
	at little as	lestification

isothiuronium bromide hy or AETP (monosodium sa stilbestrol, on one hand, wo promising classes of  The phenomenon of d lowering of the lethal rad logical principle. A poss of chemical radioprotect sensitivity of irradiated This assumption can be c	i, diethylstilbestrol and AET (S-\(\beta\)-aminoethyl drobromide). This study dealt with cystaphos; It of aminoethylthiophosphoric acid). Diethyland AET—AETP on the other are examples of radioprotectors for mammals.  ccreased effectiveness of mammal protection with ation dose can be considered a general radiobioble cause of this phenomenon could be the toxicity ors for nonirradiated animals, and the increased animals to the toxic effect of these substances. Insidered proved for AET, since lowering the dose the decrease in protection usually observed with	0	
Card 2/3			

ACC NR: AT0036668				o ·	
lowering of the lethal radia	tion dose.		•	•	
Cystaphos has previous administered in a dose comprotective effect of this not dose drops shows the need Furthermore, the authors pletely ineffective as a rad	parable to Antoxic chemic for other exp proved that conjugate with the conference of	eT. Therefore, al also decrease lanations for the ystaphos is mildlith radiation dos	the fact that the sas the radiation phenomenon, y toxic, and com	n	
minimum lethal dosc. [7].	A. No. 22; ATD	Report 66-116]			
SUB CODE: 06 / SUBM DATE:	00Nay66			٠,	
					d to the same
				·	
. 3/3			•	•	
Card					

·····································	的。 1997年 1997			
<b>)</b> SUSI 3 Ke	9, V.T.			*
	A transistorized audi	level indicating devices.	Trudy VNAIZ (MIRA 15:9)	
		NOT THE REST THROUGH TO SERVICE AND ASSAULT WHITE THE PROPERTY OF THE PROPERTY		

		alant rassanda	The state of the s	
ausliko	OVA, A.K.			
	Antianemic diet in cer 35 Ja-F '61.	tain types o	f anemia. Vop. pit. 20 no. 1:29- (MIRA 14:2)	
	1. Iz kafedry gospital Kurskogo meditsinskogo (AMEMIA) (DIET II	'noy terapii instituta.   DISEASE	(zav dots. I.G. Chernetsov)	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m
		} 		
				i
				•
				e and a second s
•				

			ro energial production of the second	A MANUAL CONTRACTOR PROCESSION INCIDENT		
Ye (i)	MATOSYANTS, A.I.;	SUSLIKOVA,	A.K.; SKRIPNI	K, L.S.	·	5
6	Case of the p	eriarteriti cocess. Vra	s nodosa with ch. delo no.5	primary pulmonary 1:140-141 My '62. (M	ocalization IRA 15:6)	
	l. Kafed Matosyan michesko Blumberg	ira gospital ts) Kurskogo ve otdeleniy	noy terapii meditsinskog (nauchnyy r lastnoy klini	(zav doktor med. o instituta i patolo ukovoditel' - prof. cheskoy bol'nitsy. (LUNGS-DISEASES)	nauk A.I. goanato~ A.S.	*
						Regulation again differences
•						P I
						9

- June Des Mineral		FAMILY SANCTHIS	PARTY, SUSPENIERS				- 1
	SUSLIKOVA, A.K.						
		ation with Mr '64.	a patent duct	us arteriosus.	Vrach. delo (MIRA 17:4)		
	l. Kafadra g Kurskogo med	spital'noy tsinskogo i	terapii (2av. nstituta.	- prof. A.T.Ma	tosyants)		*
				i i i			
i i						of Assertance and Ass	
				es de la companya de La companya de la co	4		1

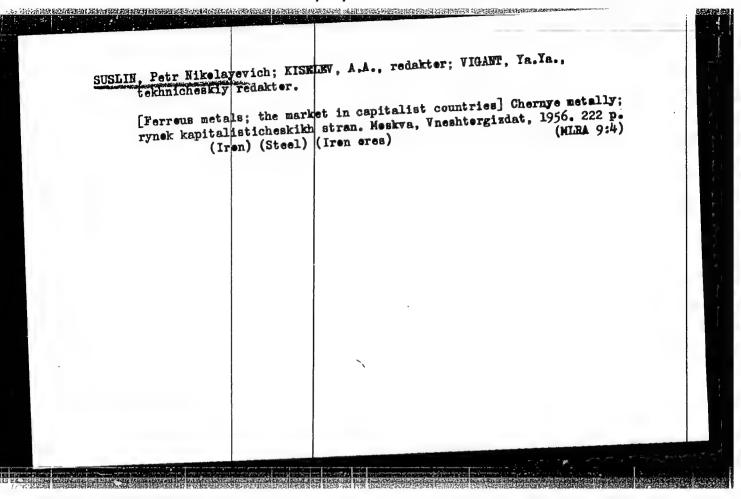
(三)"巴尔巴斯巴斯巴斯巴斯巴斯巴特里埃雷斯	HAPPEN THE SECRETARY RESIDENCE SECRETARY SECRE
BIRYUK,	Vladimir :ergeyevich; ABKAMOVICH, C.F., doktor tekhn. nauk, prof., retsenzent; SUSLIN, A.I., kend. tekhn. nauk, rotsenzent; ALY MOVSKIY, F.I., nauchn. red.
	[Smoke abatement in spagoing ships] Borlba s zadymleniem morskikh sudov. Leningrad, Sudost roenie, 1964. 169 p. (MIRA 18:2)

				SINGLE SING FORE	STATES AND LINE BEEN WIN	
ANTOMOV, E.l., in		1	1	f 5TF-10 fe	ed pumps. (NiRA 17:30)	
Hnergetik	no.737-9 S	*04a			funta Tielol	ľ

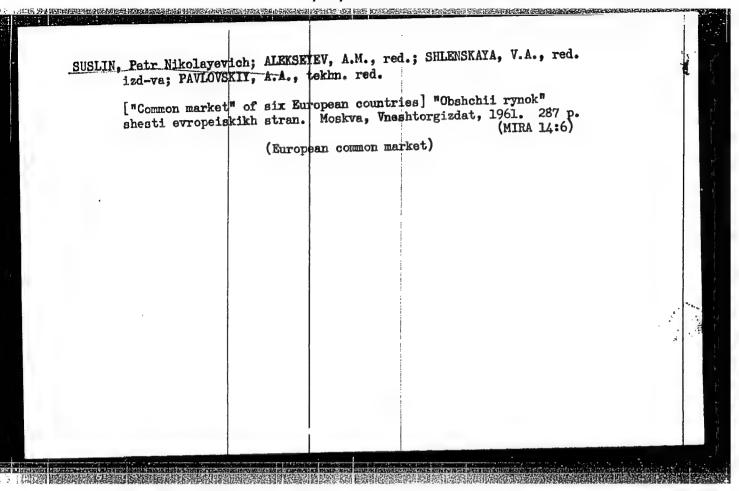
SUSLIN	For old and new resident	ts. Mest.prom.i khud.	romys. 3 no.2:10-12	
	F *62.		(MIRA 15:2)	
	i toplivnoy promshlennos	sti Gosmestproma RSFSF	derevoobrabatyvayushchey l.	
	(1	Furniture industry)		

SUS	LIN, M.S.
	Manufacture of beams with two sloping surfaces and a span of 18 m. Bet. i zhelbet. no.9:412-414 : 5 61. (MIRA 14:10)
	1. Zamestitel glavnogo tekhnologa Bereznikovskogo zavoda zhelezotetonnykh konstruktsiy No.4.  (Beams and girders)

SUSTAIL,	
SUSLIN, ?.	
Iron Industry	
Accentuation of conflicts on the ferrous metal market in the capitalist countries. Vnesh. torg. 22 no. 6. 152.	
Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.	State of the state



sus			s. Vnesh.torg. 26 no.4	:14-19 Ap '56. (MLRA 9:8)	
	(1	ron industry)	Steel industry)		
M. A			•		
			;		
11 10			:		
			:		
			·		
			;		
			•		
			:		
		1			
V.			:		
			·		

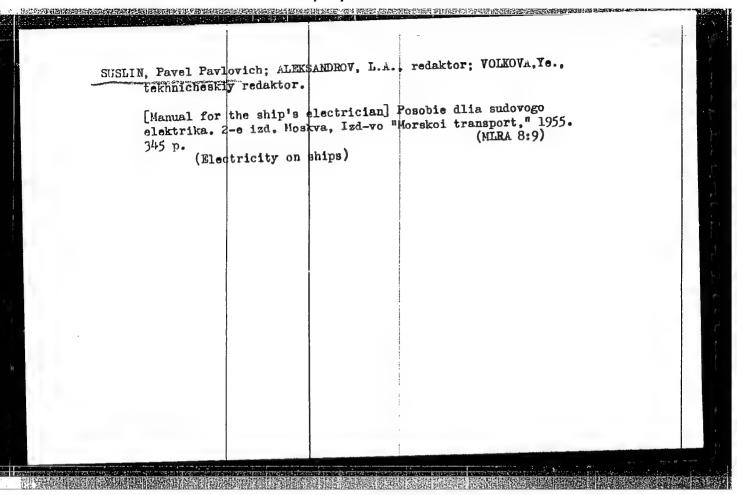


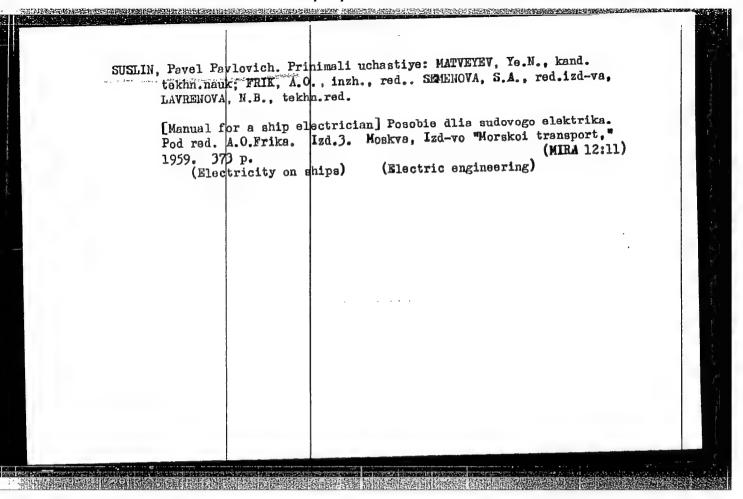
50	[The e	conduct and for	torgovila stran A	ican countries] Eko- friki. Moskva, Vnesh- (MIRA 17:5)	

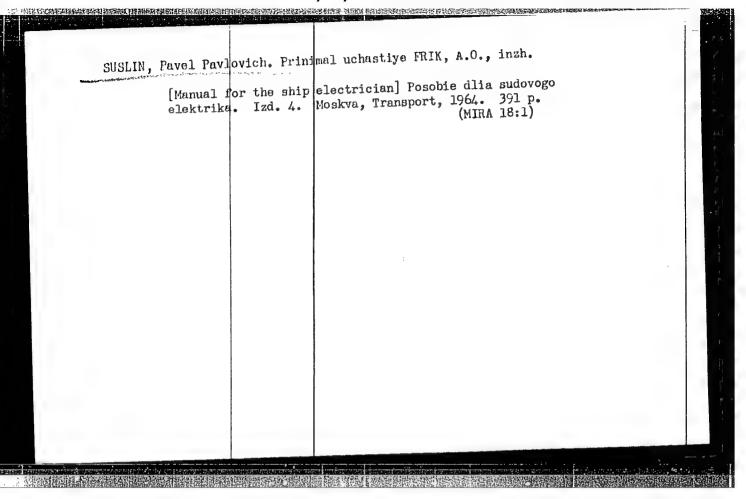
	SUSLIN	, F. P.								
	Harbor kadram	electricians. morskogo flota	Moskva , 29)	, Morskoi t (51-16650)	ransport,	1945.	135 p.	(V pomoshch'	novym	Section of the sectio
	TK146.	\$85								
						Pira merek dikabilandak bilanda bilanda				
				:		AMBABAN ALVA ALBANY I DI AVVI				de de la companya de
						emiles com a manda as se es es es				
										6
ase ii ai		res recent sus real	MANAGE SAIS			SECTION STATE	as Kare Mare	ALCONOMICS TO SERVICES		1:200

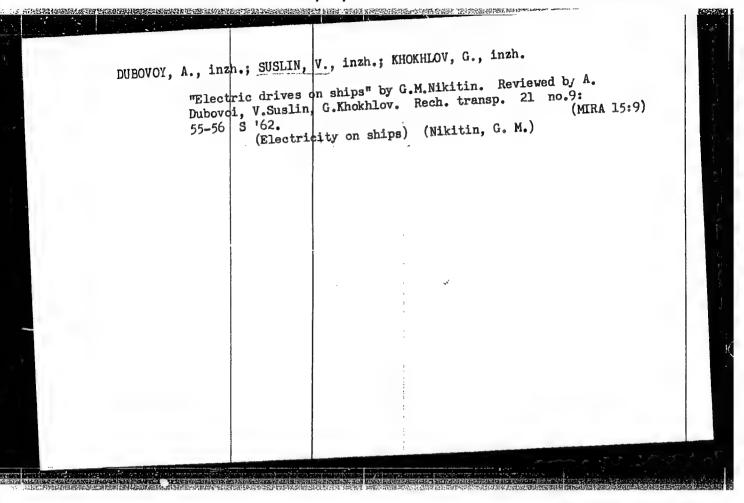
SUSLIN, P. P.		I CA CACH THE LARVE		48117-5-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	THE RESIDENCE OF THE PARTY OF T	
Ships' electricians. morskogo flota, 34)	Moskva, Morskci (51-16903)	transport,	1945.	142 p.	(V pomesheh' novym kadram	
VM4,79.58						
						and the Same of Same
						10 (A)
						A de la serie de l
						(C-7)
			There was a gree			

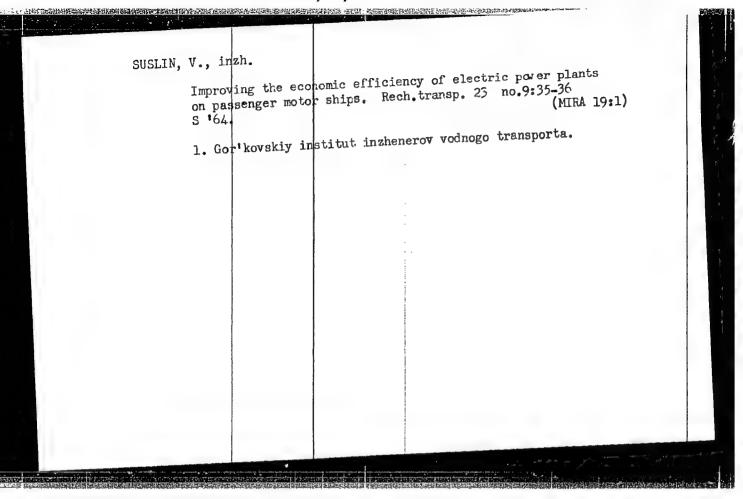
Fosoble did a sudevogo elektrika [Fanta] for the ship electrician. Yoskvu, Morskoi transport, 1952. 320 p.  SC: Monthly list of Eussian Accessions, Vol. 6 No. 10 January 1954	
--	--



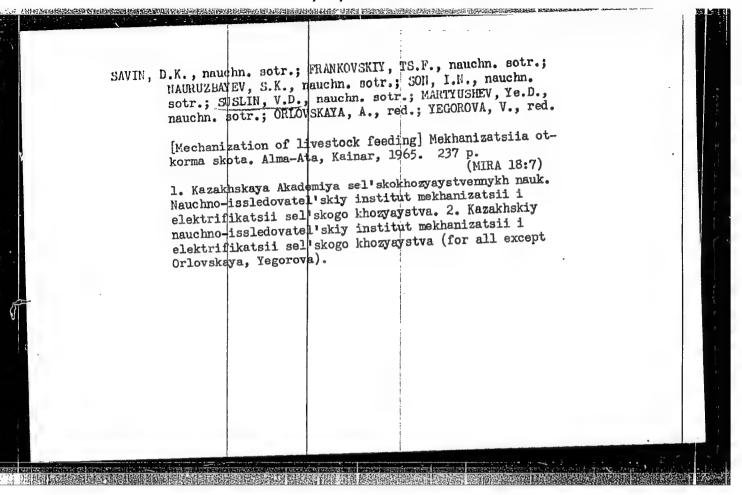








BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.; GUREVICH, G.M.; GORBUHOVA, P.I.; KONNOV, A.S.; KALANTAROVA, M.V.; KASHIRSKIY, A.Ya.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETI-CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.; SUBBOTINA, V.P.; TANAS YCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.; SUBBOTINA, V.P.; TANASIICHUK, N.P.; FEDUTUV, S.D.; FIDERRO, A.N.;
EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALECHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,
D.A.; IVANNIKOV, A.Ya.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,
A.F.; SEREZHNIKOV, V.K.; SEMICHASOV, M.D.; SOKOLOV, A.V.; SFEPANOV,
V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;
CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;
CONDEDOUTCH A.M.; DOVERSIUSKIY E.W.; BRASLAUSKIY M.S.; BUDENKO OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO, I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.; VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.; BUTYRIN, Ya.H.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.; VIDETSKIY, A.F., kand tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.; KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red. Astrakhan'. Promyshlennaia Astrakhan'. [Industrial Astrakhan] (MIRA 12:11) 1959. 318 p. Izd-vo gazety "Volga," 1. Astrakhan (Province) Ekonomicheskiy administrativnyv rayon. (Astrakhan Province--Economic conditions)



sov/92-58-10-21/30

25(0)

AUTHOR: Suslin, V.I., Foreman

TITLE: A Composite Crew (Kompleksnaya brigada)

PERIODICAL: Neftyanik, 1958, Nr 10, pp 27-28 (USSR)

ABSTRACT: The author states that his crew consists of specialists in oil well maintenance in crude oil production. Moreover, it contains a research group and a small group specialized in extracting oil by secondary recovery methods. In addition to its principal job, this composite crew assembles, disassembles and moves hoisting equipment, wellhead equipment, pumpers, gaging tanks, etc. Among workers of this crew there are men who are able to work as welders, drivers, electricians, etc. The crew extracts oil by applying advanced techniques and takes advantage of the flow scheme introduced by Markar'yants, Chief of a department in the Petroleum and Gas Production Administration. In some deep wells the oil is aerified to stimulate the well flow.

Card 1/2

A Composite Crew

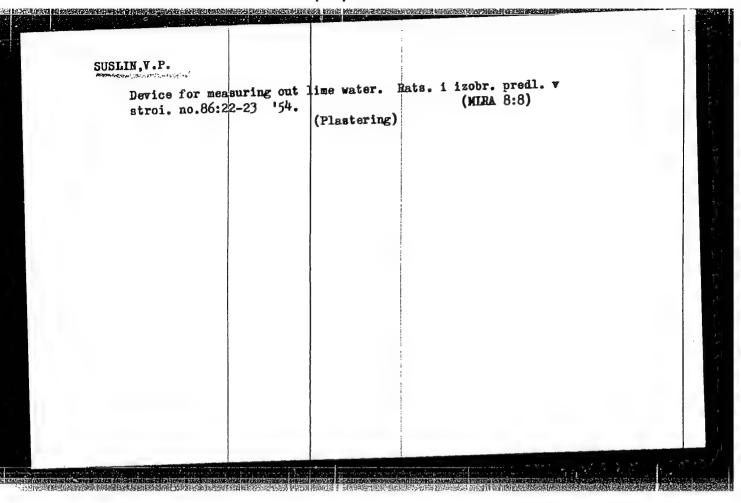
SOV/92-58-10-21/30

Hydraulic fracturing of additional perforation, and other recently developed methods are oil well output. However, under conditions the grevailing in fields of the Gudermess Administration hydraulic fracturing does not produce satisfactory results, and further studies of its application should be made. Hydrochloric acid treatment of wells is performed rather satisfactorily, but some measures should be taken to prevent the accumulation of salt deposits in the formation because these deposits hinder the free flow of petroleum to the drill-hole. The use of gas packers of the new type brings good results. Following the suggestion of P.K. Khludnev, member of the crew in question, derricks are now assembled at the drilling site thus saving expenditures for their transportation. A number of other practical suggestions were made by several members of the crew, and as a result the 1957 production plan was overfulfilled. It is expected that still better results will be obtained in 1958.

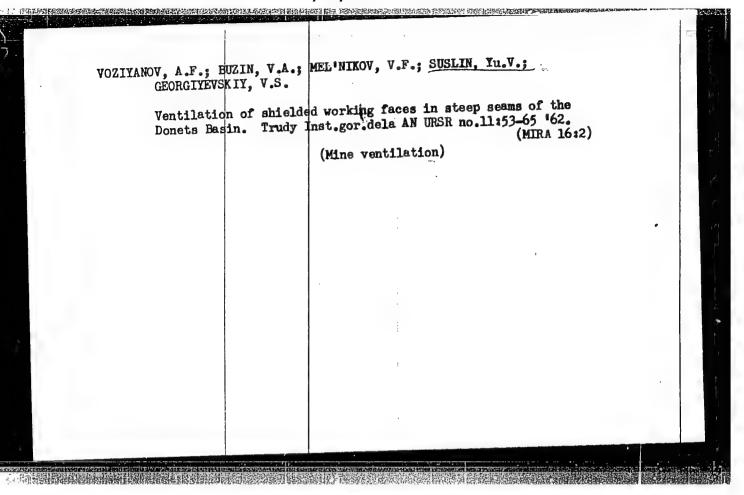
ASSOCIATION: Gudermesskoye NPU (The Gudermes Petroleum Production Administration)

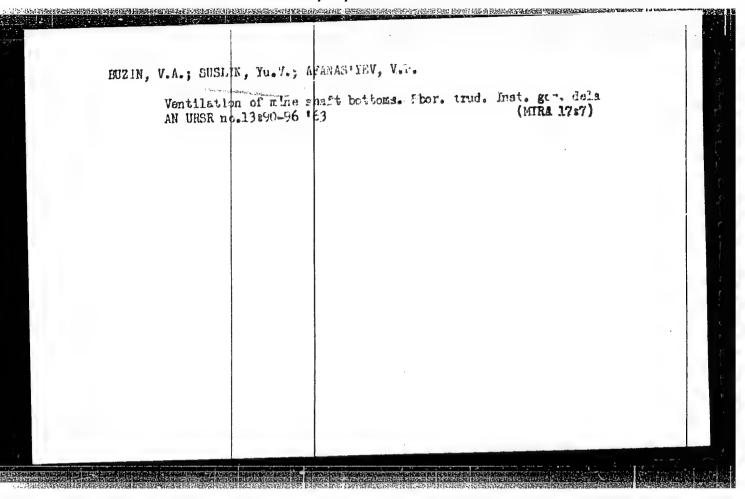
Card 2/2

SUSLIN, V.I.		
2.0		P
l. Master promyslovo	kompleksnoy brigady po dobyche nefti Gudermesskogo nefte- ogo upravleniya. (Oil well pumps)	
	(one possibly)	3
	·	3
		Č.
		1
		1
		t (
		£1
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
STATE OF THE STATE		Least



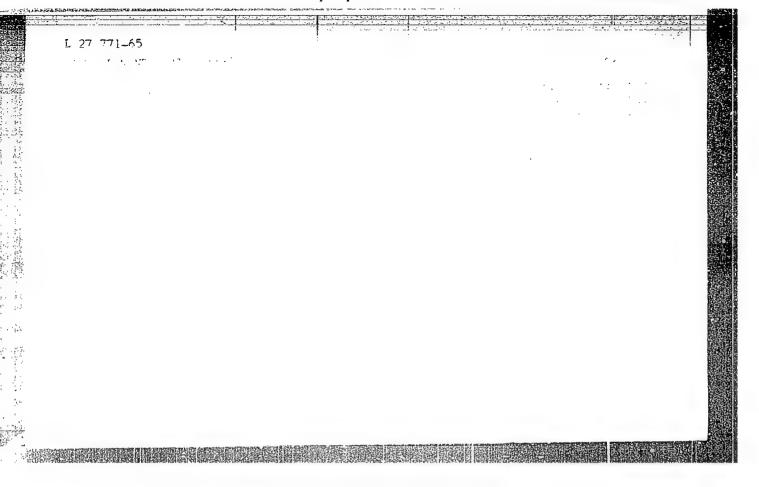
Sinne steller steller steller	SUSLIN, V.Ya.;	VLASOV, I.A.	TSYMBALOV,	K.F.; TAYTS, A.A.,		
	Device for no.5:10-11	distributing My 153.	canning jars	in annealing ovens.	Prom.energ. 10 (MLRA 6:5) (Glassware)	
						Section of the sectio
						Post of the second
						N. X
						E
					-	E8141 8814

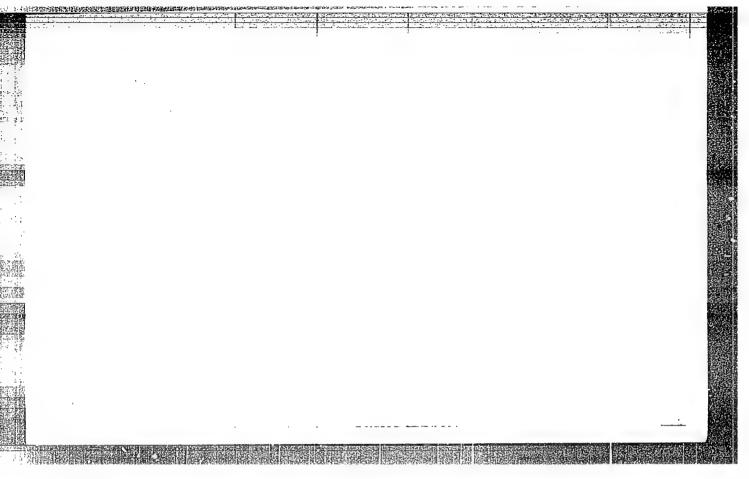




SIMONOVA,	Manual on absorbe	ort cotton production," by G.A. Vainshtein,
	Z.A. Bravyi. Rev	viewed by R.G. Simonova, G.L. Kudrin, A.I. Suslina. no.6:86-89 Je 159. (MIRA 12:9)
	cheskogo soyuza i	Dvadtsatiletiya Vsesoyuznogo Leninskego kommunisti- moledezhi (for Kudrin). 2.Zaveduyushchiy khimi- priyey fabriki imeni Dvadtsatiletiya Vsesoyuznogo misticheskogo soyuza moledezhi (for Suslina). (Cotton manufacture) (Vainshtein, G.A.) (Bravyi, Z.A.)

CESSION NR: AT5003	V)/EHT(11/EPA(bb)-2/T-2/EMP(f) Pe-5/Pw-4 WW 392 S/2563/64/000/232/0071/0082 30
THER Galerkin, Y.	. R. Suslina, I. P.
	- entrifugal compress
×	(1964) Euroomes -
er en en en	
TO AND TO THE STATE OF THE STAT	errance, compressions naracterisitie,
	Disigne of low-outrut, high-pressure, centrifugal compressors
paculiarities when cadditional experimen	ompered with stages having moderate it large relative studies tal data were needed for successful and efficient designs,





EWT(1)/EPA/EWP(f)/ENG(v)/1-2/EPA(bb)-2 Pe-5/Pw-4 T 27782\_65 5, 2563/64/000/232/0093/0098 ACCESSION NR: AT5003394 AUTHOR: Strizhak, L. Ya.; Suslina, I. P.; Khentslov, V. I. TITLE: The operation of the rotor and vaneless diffusor of a high pressure low output centrifugal compressor stage SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 232, 1964. Turbous shiny (Turbomachines), 93-98 TOPIC TAGS: compressor, centrifugal compressor, Mach number, Reynolds number, compressor characteristic, compressor rotor, compressor loss, low output compressor, vaneless diffusor ABSTRACT: During the design of 90° exit angle, high-pressure, compressors, difficulties arise due to the high values of the Mach number (M) (these exceed the difficulties encountered in the conventional rotors with 45" exit angles). High M numbers at the entrance to various elements of the compressor stage may result in increased losses within the rotor and during the conversion of the dynamic thrust within static elements. Low-output centrifugal compressor units have, on the other hand, low Reynolds numbers (Re) caused by the decrease in hydraulic diameter at 15% relation widths. This enhances the role played by viscosity at low

#### "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001654010012-1

L 27782-65 ACCESSION NR: AT5003394 9

peripheral velocities. All this made a thorough study of the influence of viscosity and compressibility on the operation of centrifugal stages necessary. The subject of this paper was the tests, tepresenting a continuation of the previously reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. Vasil'yev, V. F. Kuz' reported studies on the influence of M and Re numbers (A. V. V

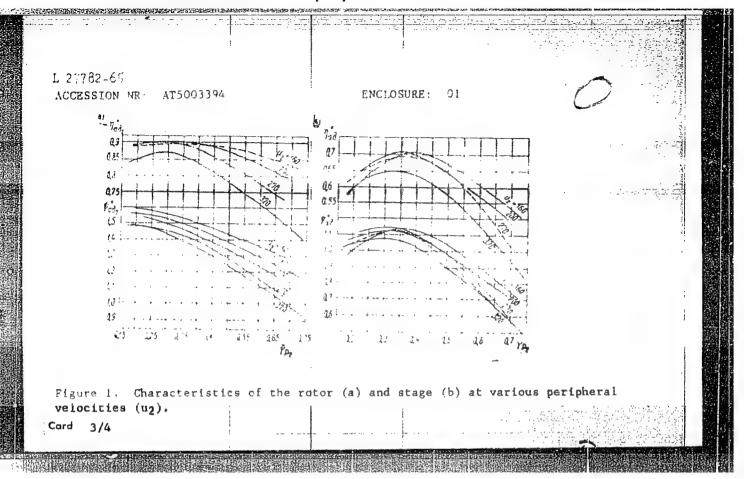
ASSOCIATION. Leningradskiy politekhnicheskiv institut imeni M. I. Kalinina (Leningrad polytechnic institute)

SUB CODE: PR

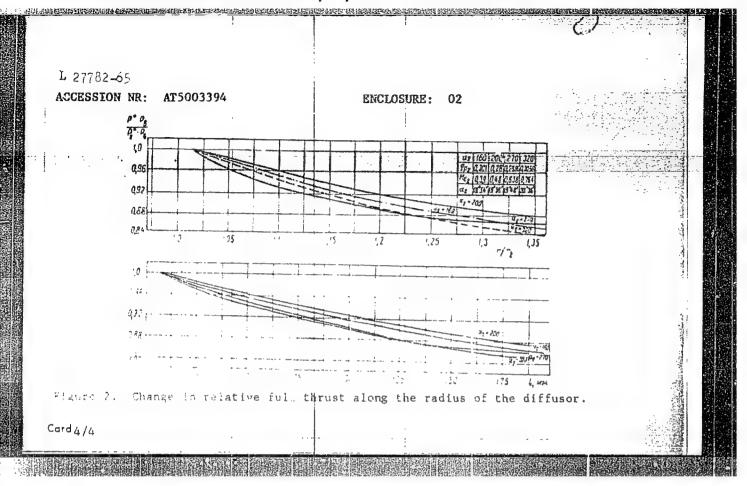
. BMIII'

OTHER: 002

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654010012-1



"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001654010012-1



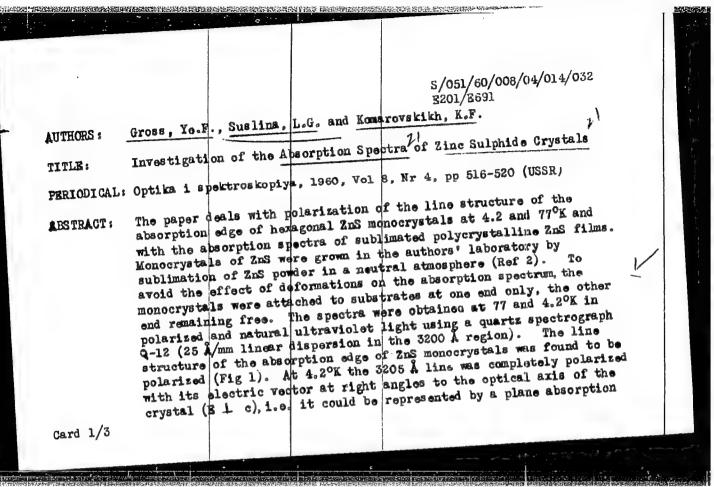
SOV/51-6-1-24/30 AUTHORS: Gross, En.F. and Suslina, L.G. Simila Translate of Zes sai the Spectrum of Their Absorption Edge at TITLE: Low Temperatures (Monokristally ZbS 1 spektr ikh kraya pogloshcheniya pri nizkikh temperaturakh) PERIODICAL: Optika i Spektroskop ya, 1959, Vol 6, Nr 1, pp 115-117 (USSR) ABS TRACT: In state typical and produced by ablimation of very pure powder in an atmosphere of argon. This method is similar to that employed for growing of CdS monocrystals in the laboratory of S.M. Ryvkin, at the Physico-Technical Institute of the Academy of Sciences of the U.S.S.R. Sublimation was carried out in a quartz tube (1, in Fig 1) placed in an electric furnace (2, in Fig 1). A quartz boat 3 filled with ZnS was placed in the howest part of the tube 1. This boat was heated to 1270°C. Before the electric furnace was switched on, a stream of argon was passed for 1 hour vis a small tube 4. This was done to expel all air from the system. The electric furnace was switched on for 2 hours. During this time the vapours of ZzS produced from the powder were moved by a stream of argon to a quarts screen 5. Zul single crystals were found to grow on this screen and on the tube walls near it. The single were in the form of colourless plates of 25 x 5 mm area alleferro Card 1/3

。 第一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,我们就是一个大量,我们 SOV/51-6-1-24/30 Single Capeals of ZnS and the Spectrum of Their Absorption Edge 2's Low Tomperatures and their thickness varied from 0.1 mm to 0.1 µ. The single crystals the found to be uniaxial (hexagonal modification of ZnS) and the optical axis was found to lie in the plane of the crystal. Using crystals of various thicknesses the authors studied the absorption spectra in the region of 3300-3100 Å (Fig 2). Surves a 5, 4, 2 in Fig 2 represent spectra obtained using crystals of 10, 1, 1 and J.1 u thickness respectively. The structure of the long-wavelength edge of absorption was found to be clearly exhibited at the liquid-helium temperature (4.20K) as shown in Fig 2. Heating of crystals from 4.2 to 77°K and then to 2000 displaces the absorption lines towards longer wavelengths and makes them less distinct. Positions of the absorption lines near the long-wayelength edge are given in warious temperatures in a table on p 117. This table lists three absorption maxima at 4.20K and 770K and only two such maxima at 2930K (200C). All these maxima lie between Card 2/3

Single Gryat	3120 and L.V. Mas There ar	3220 Å. A. lova for the	knowledgment ir advice on 1 table and	SOV/51-6-1-24/30 Absorption Edge at Low Temperatures are made to O.A. Matveyer and the method of growing of single cryst. 10 references, 6 of which are Soviet,	als
SUBMITTED	: July 18,	2958			
Card 3/3					
				,	

SOV/51-6-4-29/29 Gross, Ye.F., Novikov, B.V., Razbirin, B.S. and Suslina, L.G.
Absorption Spectra of Crystals of Certain Gallium Chalcogenides (Spektry poglosncheniya kristallov nekotorykh khalkogenidov galliya)
Optika i Spektroskopiya, 1959, Vol 6, Nr 4, pp 569-572 (USSR)
Linear structure in the long-wavelength edge of fundamental absorption was observed in the spectra of some semiconductors (Refs 1-10). These lines were ascribed by some authors to exiton states and by others to excess of one of the components of the semiconductor or to a foreign impurity. The present paper reports an investigation of the absorption spectra of gallium sulphide and selenide crystals (GaS and GaSe) with hexagonal laminar structure and crystals of A-Ga2S3 and Ga2Se3. GaS crystals were obtained by melting together at 1000-1050°C stoichicmetrical amounts of gallium and sulphur in evacuated quartz ampules. Crystals of A-Ga2S3 were prepared similarly but at a higher temperature
(1200-1250°C). Preparation of GaSe and GaSe3 (cubic symmetry) was described by Goryunova et al (Ref 13). GaS and GaSe were used in the form of monocrystals of thicknesses varying from several microns to 100 Ga2S3 and Ga2Se3 were 50-100 μ thick. Structure in the fundamental absorption edge was observed in the spectra of GaS and GaSe at 77°K (Figs la and 2a respectively). Such structure was also visible in the

SOV/51-6-4-29/29 Absorption Spectra of Crystals of Certain Gallium Chalcogenides absorption spectrum of GaSe at room temperature. In contrast to GaS and GaSe, no structure was observed in the fundamental absorption edges of Ga2S3 and Ga2Se3 either at room temperature or at 77°K (Figs ls and The absence of structure in the absorption spectra of β-Ga<sub>2</sub>S<sub>3</sub> and Ga2Se3 is probably due to a large number of randomly distributed imperfections in these crystals. Such imperfections impede formation and migration of excitons and consequently the exciton lifetime is very short. Under such conditions the exciton structure of the absorption bands may be very diffruse or it may disappear altogether. absorption spectra the authors deduced the energy gaps in these semiconductors. A table on p 571 lists the values of the energy gaps so deduced at 290°K (col 2) and 77°K (col 3). These values agree satisfactorily with those deduced from photoelectric measurements at room temperature, which are listed in col 3. Acknowledgments are made to N.A. Goryunova for supply of GaSe and Ga2Se3 and for advice on preparation of GaS and Ga2S3 crystals. There are 2 figures, 1 table and 17 references, 10 of which are Soviet, 5 French and 2 German. November 27, 1958 SUBMITTED: USCOMM-DC-60,717 Card 2/2



S/051/60/008/04/014/032 E201/E691

Investigation of the Absorption Spectra of Zinc Sulphide Crystals

The 3180 Å line was unpolarized or slightly polarized oscillator. and the 3115 A line was strongly polarized with E | c (the absorption oscillator close to a linear electric dipole). The nature of polarization of the spectrum of ZnS monocrystals is similar to polarization found in other uniaxial crystals with discrete structure of the absorption edge (Refs 4-6). Thin crystals (d~0.1 u) were found to stick to the base and the consequent deformation produced displacement of the absorption lines (Table 1), as well as broadening (the 3205 A line). The absorption spectra of some "free" crystals were also found to be displaced by 1-2 A due to internal stresses produced during growth of the monocrystals or due to differences in attachment to the bases. The authors investigated also the absorption spectra (Fig 2) of polycrystalline ZnS films produced by sublimation in vacuo. At 4.20K the following absorption lines were observed (the widths are given in brackets): 3212 Å (10 Å), 3190 Å (10 Å), 3128 Å (20 Å); all these are shown in Fig 2a. In some films a weak line at 3271 A (20 Å width) could be seen (Fig 23) .: The positions of the absorption lines in polycrystalline ZnS films at 4.2 and 77°K are listed in Table 2. Comparison of the data in Tables 1 and 2 shows that the positions and

card 2/3

S/051/60/008/04/014/052
E201/E691

Investigation of the Absorption Spectra of Zinc Sulphide Crystals

widths of the absorption lines of polycrystalline films are close to the positions and widths of ZnS monocrystals atuck to substrates.

It follows that the films have hexagonal structure. The 3212, 3190 and films and the corresponding lines in the spectra of monocrystals are the lines of the lattice itself (exciton excitation). The 3211 A line of Ens films is due to lattice defects (for example excitation of "impurity" excitons in the defective regions). There are 2 figures 2 tables and 9 references, 8 of which are Soviet and

SUEMITTED: August 13, 1959

Card 3/8

22187

94,7400 24,3500

AUTHORS:

S/048/61/025/004/036/048 B117/B212

Gross, Ye. F. and Suslina, L. G.

TITLE:

Investigation of the absorption and the luminescence of ZnS and ZnSe single ¢rystals

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25. no. 4, 1961, 532+533

TEXT: The present paper has been read at the 9th Conference on Luminescence (crystal phosphors). The authors have investigated the absorption, reflection, and luminescence spectra of ZnS and ZnSe single crystals near the long-wave edge of the principal absorption at temperatures of liquid helium. ZnS and ZnSe single crystals have been obtained in form of plates by sublimation of powder in a neutral gas medium. They belong to the hexagonal modification with a sixfold axis in the plate plane. The maximum dimensions of the crystals are:  $ZnS = 25 \times 5 \times 0.1$  mm and  $ZnSe = 7 \times 1.5 \times 0.1$  mm. The spectra have been studied at T = 4.2 K in polarized light from photographs of samples of various thicknesses. It has been found that the long-wave edge of the self-absorption of ZnS Card 1/3

22187

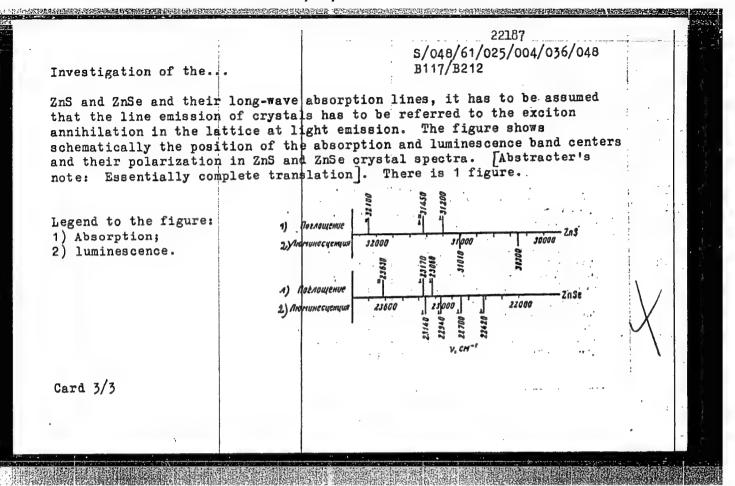
Investigation of the ...

S/048/61/025/004/036/048 B117/B212

and ZnSe single crystals has a complicated structure and shows several small, intensive, polarized absorption lines at T = 4.2 K. A line luminescence has been observed at the absorption edge of both crystals. Between the short-wave emission lines and the long-wave absorption line a resonance has been established. The relative distribution, the polarization, and the width of the lines are very similar in absorption spectra of isomorphous ZnS and ZnSe crystals. Considering the position of the absorption edge, the stability and the high absorption coefficient (~10 \frac4 \div 10^5 cm^{-1}) it can be assumed that the established absorption caused by the structure is due to the absorption of the basic substance in the lattice, i.e., the formation of excitons. The luminescence spectrum of ZnS has been obtained from fine-crystalline powder at 77.3 K. At T = 4.2 K, an intensive line structure has been found in the luminescence spectra of ZnSe single crystals. An equidistant band group which can be found in a number of oxyde and sulfide crystals is found here. The gap between equidistant bands (\Delta v \in 260 cm^{-1}) corresponds in

magnitude to the lattice vibration energy of ZnS. Taking into account that there is a resonance between the short-wave luminescence lines of

Card 2/3



 ეს232 \$/181/62/004/002/015/051 B102/B138

24.3500 (1137, 1138, 1144)

AUTHORS: Gross,

Gross, Ye. F., Suslina, L. G., and Kon'kov, P. A.

TITLE:

Exciton spectrum of hexagonal ZnSe single crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 2, 1962, 396-400

TEXT: Exciton absorption and reflection spectra were studied at 4.2°K on ZnSe plates with a maximum area of 10 mm² and depths ranging from a few to some tens of microns thick. They were obtained by evaporating ZnSe powder in an argon atmosphere. The measurements were carried out in polarized light with an MN -28 (ISP-28) spectrograph with linear dispersion of 45 %/mm in the 4350 % range, and an MCN -51 (ISP-51) with 25 %/mm dispersion in the same range. The absorption coefficient was 105-10 cm². For Elo the absorption edge was 4356 %, for Ello at 4292%. The absorption line (A) with maximum at 4335 % and ~10 % in width is in the extraordinary ray, and is intensified as the angle between E and 5 increases. It was studied in detail. With an Ec angle of up to 50-35° a side line (B) appears with 4311 %, which has the same polariza.

	, ,		
tion. The rotating treflection Chang Kuar taken to in theoretics Position in ZnS 3205 Å 3180 3115	n spectrum for E // observed observed and results and polarization  E 1 c  E    c	xtraordinary-ray line intensitions of the served with CdS, CdSe, ZnS and HgI2. The served with CdS, CdSe, ZnS and HgI2. The c has a peak at 4242 Å, a dip at 4232 Å, d this line (C) at 4227 Å. This value is nSe exciton spectrum is confronted with b results for ZnS at 4.2°K;	

Exciton spects	rum of hexagonal Z		3h232 181/62/004/002/015/051 02/B138	
17 references references to Thomas, J. J. Rev. Lett., 2	: 9 Soviet and 8 n English-language Hopfield. Phys. R	on-Soviet. The publications of the state of	he four most recent read as follows: D. G. 1959; J. L. Birman. Phys Phys. Chem. Sol., <u>15</u> , 9	s. ·
ASSOCIATION:		otechnical Inst	im. A. F. Ioffe AN SSSR titute imeni A. F. Ioffe	,
SUBMITTED:	August 16, 1961			X
Card 3/0 7				

16185 S/181/62/004/012/051/052 B125/B102 21,35 70 Gross, Ye. F., and Suslina, L. G. AUTHORS: The emission spectrum of hexagonal ZnSe single crystals TITLE: Fizika tverdogo tela, v. 4, no. 12, 1962, 3677-3680 PERIODICAL: TEXT: The "edge-emission" (emission on the long-wave side of the fundamental absorption edge) from hexagonal monocrystalline plates and from coarse crystalline sinters and powders of ZnSe, is described for the exciton structure of the ZnSe absorption investigated earlier (Ye. F. Gross et al., FTT, 4, 396, 1962). A similar edge emission (i.e. a series of narrow emission lines) from a fair number of oxide and sulfide crystals (ZnS, ZnO, CdS and others) has been observed by F. A. Kroeger (Physica, 7, 4, 1940) and other workers. The emission spectra excited by light in the range of selfabsorption of ZnSe at 77°K and 4.2°K have been photographed using a MCN-51 (ISP-51) spectrograph with linear dispersion. The excited ZnSe-monocrystals glow light green at low temperatures. All spectral lines of the ZnSe-monocrystals with a Wurtzite-structure are polarized normal to the optical axis at T = 4.2°K, Card 1/3

The emission spectrum of ...

S/181/62/004/012/051/052 B125/B102

The first and very intensive emission line of such a spectrum with a maximum  $\lambda 4326$  A is located among the first very long-wave absorption lines with 4335 and 4311 A. The intensities of the equidistant line series 4361, 4405, 4454, 4501 A decrease with increasing wave length. The position of emission lines of different monocrystalline samples differs by several A as a result of some inner deformations. The equidistant series of various samples mentioned can contain various numbers of lines. Powders and coarse crystalline sinters display the most intensive equidistant luminescence and also the most numerous equidistant lines. At 4.20K there is a green band at 5150 A (causing the luminescence observed) and there is a red band at 6000 A. If the temperature is raised to 77°K the equidistant series disappears, the strong emission line at 4326 A is shifted to 4320 A, and the "red" and "green" baids become more smeared out, showing a red shift. The observed belongs to the longitudinal oscillations of frequency of 240 cm the ZnSe-lattice. The transverse frequencies of CdS (Wurtzite-structure), ZnSe (sphalerite-structure) and CdSe (Wurtzite-structure) amount to 260, 215-218 and 185 cm<sup>-1</sup> The longitudinal frequencies of CdS, ZnSe and CdSe (all having a Wurtzite-structure) amount to 300, 240, and 213 cm . The Card 2/3

The emission spectrum of  S/181/62/004/012/051 B125/B102  present authors established a far reaching analogy between the abs spectra of ZnO and those of ZnSe. There are 1 figure and 1 table.  ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSS Leningrad (Physicotechnical Institute imeni A. F. Io AS USSR, Leningrad)  SUBMITTED: August 31, 1962	orption
ASSOCIATION: Fiziko-tekhnich eskiy institut im. A. F. Ioffe AN SSS Leningrad (Physicotechnical Institute imeni A. F. Io AS USSR, Leningrad)	R,
	, , , , , , , , , , , , , , , , , , ,
	.*

S/181/63/005/003/016/046 B102/B180

AUTHORS:

Gross, Ye. F., Suslina, L. G., and Livshits, A. I.

TITLE:

Reflection and luminescence of zinc telluride single crystals

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 801-806

TEXT: This is the third paper in a series of studies of the optical properties of ZnS - ZnTe crystals (Opt. i spektr., 8, 516,1960; FTT, 4, 396, 1962); it describes investigations made in the visible and ultraviolet ranges at 293, 77 and 4.2°K, including also luminescence at 4.2°K. For the reflection spectra a 101-51 (ISP-51) spectrograph was used for the visible and a Q-12 for the UV ranges. At 77°K a narrow reflection peak was observed at 5236.3+0.3 Å (2.3675 ev) which, at 4.2°K, shifted to 5209.3+0.1Å (2.3798 ev). At room temperature only two broad diffuse maxima were found, one at 3600+50 Å (3.44 ev), the other at 3100+50 Å (4.00 ev). Which at 77°K, these maxima shifted to shorter waves (3330+5 and 2865+3 Å) and narrowed considerably from 2700 to 230 cm<sup>-1</sup>, and from 2000 to 140 cm<sup>-1</sup>. The 5236.3Å peak is attributed to Card 1/3

S/181/63/005/003/016/046
Reflection and luminescence of sinc ... B102/B180

direct transitions exciton states connected with extrema, at k=0 (Fpoint), of the lower conduction and the upper valence bands; 3330 and 2865 & to direct transitions to exciton states connected with extrema of the two valence bands and the conduction band, lying at k (111) at the edge of the Brillouin zone (L-point). The luminescence spectrum observed differed somewhat from that of D. G. Thomas et al. (Phys. Rev. Lett., 8, 391, 1962; Phys. Rev., Ser. II, 122, 1382, 1961). Luminescence was excited by irradiation in the self-absorption band and was taken on the ISP-51 spectrograph. The three types of ZnTe crystal (I, II, III) investigated have different types of spectra due to different types of luminescence centers. I has a spectrum similar to CdS; it has a narrow line at 5222 A, a group of lines in the range 5240-5500A and several bands at 77 5536 R. II has a simpler spectrum consisting of 9 - 10 equidistant triplets. Type III was studied in greatest detail; it consists of narrow lines of different intensity; a faint line at 5222%, a group of equidistant intense lines at 5288%, and other groups at 5316, 5452, 5528, 5619, and 5834 A. Common to all types of crystals are the 5222 A (exciton) line and the presence of line groups whose intensity decreases Card 2/3

					,
	Reflection as	nd luminescence of	S/181/63/005/003/016/046 Zinc B102/B180	•	2.00
	equidistant (	ed side of the spe (~0.026 ev) and ar There are 10 figu	ctrum. The lines of these groups are e attributed to longitudinal lattice res.	• 63	
	ASSOCIATION:		skiy institut im. A. F. Ioffe AN SSSR, cotechnical Institute imeni A. F. Ioffe ad)		
1	SUBMITTED:	October 4, 1962			
			· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1	
				1	
		**	·	:	1.5
	Card 3/3				
	Sentende 1889 Industry Security Street Annual Security Sec				

ENSINETE SALITATINE BASIN BATAN SELECTION DE LA CESTA DEL CESTA DE LA CESTA DE LA CESTA DEL CESTA DE LA CESTA DEL CESTA DEL CESTA DE LA CESTA DEL CESTA DE LA CESTA DE LA CESTA DEL CESTA DEL CESTA DE LA CESTA DE LA CESTA DE LA CESTA DE LA CESTA DEL CESTA DELA EWT (1) (54T (m) (5FT (b) 42/5WP(b)/EMP(b) IJP(c)/BSD/SSD(c)/ASD(a)=5/ AS(mp)-2/AFAL/RAFM(a)/RAFM(-)/APON(b)/RAFM(1)/ESD(gs)/ESD(t) RDW/JD ACCESSION NR: AP5000670 5/0181/64/006/012/3684/3690 AUTHORS: Gross, Ye. F.; Suslina, L. G. TITLE: Mirror symmetry of absorption and luminescence spectra of ZnTe crystals SOURCE: Fizika tverdogo tela, v. 6, no. 12, 1964, 3684-3690 TOPIC TAGS: absorption spectrum, luminescence spectrum, single crystal, zinc alloy, spectrum analysis ABSTRACT: The authors investigated the narrow-line absorption and luminescence spectrum of the cubic modification of single-crystal ZnTe (sphalerite). The tests were made at 4.2K. The luminescence and absorption spectra were studied photographically using an ISP+51 spectrograph with a linear dispersion of 18 Å/mm in the 5400 Å region. To investigate the intensity and the temperature dependence of the emission lines, an ISR-51 spectrograph was used in conjunc-1/3 Card